

Polacca Annual Water Quality Report

Public Water System #090400106

2013

Is my water safe?

This report is a snapshot of your water quality. Included are details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. We are committed to providing you with information because informed customers are our best allies.

Do I need to take special precautions?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The Environmental Protection Agency (EPA) and Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Water Drinking Hotline (800-426-4791).

Where does my water come from?

Your water comes from 2 ground water sources.

Why are there contaminants in my drinking water?

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity including:

microbial contaminants, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife; inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial, or domestic wastewater discharges, oil and gas production, mining, or farming; pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses; organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems; and radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

WATER QUALITY TABLE

The table below lists all of the drinking water contaminants detected during the calendar year of this report. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the State requires monitoring for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently.

Contaminants	MCLG	MCL	Water	Your Low	Range High	Sample Date	Sample Violation	Typical Source
Microbial Contaminants								
Total Coliform Units:	0	2 or more positive samples / month	1 positive monthly samples (highest)	N/A	N/A	2013	No	Naturally present in the environment
Fecal coliform/E. Coli Units:	0	2 or more positive samples / month	All Results Negative	N/A	N/A	2013	No	Human and animal waste.
Inorganic Contaminants								
Arsenic Units: ppb	N/A	10	19	8.3	20	2013	Yes	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Fluoride Units: ppm	4	4	0.5	N/A	N/A	2012	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Sodium Units: ppm			180	N/A	N/A	2012	N/A	Erosion of natural deposits; salt water intrusion

Contaminants	MCLG	Action Level	Your Water	Range Low	Range High	Sample Date	A.L. Exceeded	Typical Source
Lead and Copper Rule								
Copper	1.3	1.3	0.06	N/A	N/A	2011	No	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Units: ppm - 90th Percentile								
Lead	0	15	3	N/A	N/A	2011	No	Corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Units: ppb - 90th Percentile								

Contaminants	MCLG	MCL	Your Water	Range Low	Range High	Sample Date	Violation	Typical Source
Radiological Contaminants								
Uranium (combined)	0	30	4.619	ND	4.619	2012	No	Erosion of natural deposits
Units: ppb								

Health Effects Language

Arsenic

Some people who drink water containing arsenic in excess of the MCL over many years may experience skin damage or circulatory system problems, and may have an increased risk of getting cancer.

Total Coliform

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.

Special Education Statements

Additional Information for Lead

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. PWS system is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at 1-800-426-4791 or at <http://www.epa.gov/safewater/lead/leadfactsheet.html>.

Unit Descriptions

Term	Definition
ppm	ppm: parts per million, or milligrams per liter (mg/L)
ppb	ppb: parts per billion, or microgram per liter (ug/L)
positives samples	positive samples/yr: the number of positive samples taken that year
% positive samples/month	% positive samples/month: % of samples taken monthly that were positive
N/A	N/A: Not applicable
ND	ND Not detected
NR	NR: Monitoring not required, but recommended.
MCLG	MCLG: Maximum Contaminant Level Goal: The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
MCL	MCL: Maximum Contaminant Level: The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
TT	TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.
AL	AL: Action Level: The concentration of a contaminant which, if exceeded, trigger treatment or other requirements which a water system must follow.
Variances and Exemptions	Variances and Exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions.
MRDLG	MRDLG: Maximum residual disinfection level goal. The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
MRDL	MRDL: Maximum residual disinfectant level. The highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
MNR	MNR: Monitored Not Regulated
MPL	MPL: State Assigned Maximum Permissible Level

Monitoring and Reporting Violations

Contaminant Name Rule	Type of Violation	Begin/End Date	Comments	Steps Taken to Correct the Violation	Return to Compliance	Return Date	Action Comment
PCBs [Polychlorinated biphenyls]	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.			
Chlordane	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.			
Dibromochloropropane (DBCP)	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.			
2,4-D	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.			
Ethylene Dibromide	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.			
Heptachlor	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.			
Heptachlor epoxide	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.			
Total Coliform	Minor monitoring/reporting violation for routine bacteriological monitoring.	8/1/2013 8/31/2013	4 reported of the 5 required after positive result in the month prior	Report all future required results.	Yes	2/3/2014	Subsequent monthly monitoring indicated the absence of total coliforms.
Methoxychlor	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.			
Alachlor	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.			

Pentachlorophenol	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.		
Toxaphene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.		
2,4,5-TP (Silvex)	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.		
Benzo(a)pyrene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.		
Dalapon	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.		
Di (2-ethylhexyl) adipate	Major monitoring/reporting violation for routine chemical monitoring.	Major 12/31/2013	1/1/2011 report required monitoring results due every 3 years. Violation for not sampling from EP001.	Failed to monitor and/or results as required.	Report monitoring	
Lindane	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.		
Mercury	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.		
Total Coliform	Minor monitoring/reporting violation for routine bacteriological monitoring.	10/1/2013 10/31/2013	3 reported of the 5 required after positive result in the month prior	Report all future required results.	Yes	3/14/2014 Samples were collected on 10/13/13.
Arsenic	Major monitoring/reporting violation for routine chemical monitoring.	4/1/2013 6/30/2013	Failed to monitor and/or report required monitoring results due quarterly.	Report monitoring results as required.	Yes	11/18/2013 Sampled in August 2013.
Arsenic	Major monitoring/reporting violation for routine chemical monitoring.	10/1/2013 12/31/2013	Failed to monitor and/or report required monitoring results due quarterly.	Report monitoring results as required.		
Nitrate [reported as Nitrogen]	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2013 12/31/2013	Failed to monitor and/or report required monitoring results due annually.	Report monitoring results as required.		
Barium	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.		

Cadmium	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
Carbofuran	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
Fluoride	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
Atrazine	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
Selenium	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
Antimony	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
Beryllium	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
Cyanide	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
Thallium	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
Sodium	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
Diquat	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
Chromium	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.

trans-1,2-Dichloroethylene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
Di (2-ethylhexyl) phthalate	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
1,2-Dichloropropane	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
Ethylbenzene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
Chlorobenzene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
o-Dichlorobenzene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
Styrene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
Vinyl Chloride	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
Toluene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
1,1,1-Trichloroethane	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
Xylenes	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
Dichloromethane	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.

1,2,4-Trichlorobenzene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.		
1,1,2-Trichloroethane	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.		
Lead and Copper Rule	Failure to submit Followup and Routine Sampling results for Lead and Copper Rule.	1/1/2011 12/31/2013	Failed to monitor and/or report required Lead and Copper monitoring results due every 3 years. Violation for not	Report monitoring results as required.		
E. Coli (Eschericia Coli)	Failure to conduct triggered, assessment or other source water monitoring.	3/1/2013 3/31/2013	Reported 0 Source Water results out of 4 required under the Ground Water Rule.	Submit ground water source(s) analysis report for fecal contamination.	Yes	7/31/2013 Subsequent monthly coliform sample results were none detected.
E. Coli (Eschericia Coli)	Failure to conduct triggered, assessment or other source water monitoring.	7/1/2013 7/31/2013	Reported 0 Source Water results out of 2 required under the Ground Water Rule.	Submit ground water source(s) analysis report for fecal contamination.	Yes	2/3/2014 Subsequent monthly monitoring indicated the absence of total coliforms.
Tetrachloroethylene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.		
Simazine	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.		
E. Coli (Eschericia Coli)	Failure to conduct triggered, assessment or other source water monitoring.	9/1/2013 9/30/2013	Reported 0 Source Water results out of 4 required under the Ground Water Rule.	Submit ground water source(s) analysis report for fecal contamination.	Yes	2/3/2014 Subsequent monthly sampling indicated the absence of Total Coliforms.
Endothall	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.		
Endrin	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.		
Glyphosate	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.		
Hexachlorobenzene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.		

Hexachlorocyclopentadiene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
cis-1,2-	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
Picloram	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
Dinoseb	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
Dioxin (2,3,7,8-TCDD)	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
Benzene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
Carbon Tetrachloride	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
1,2-Dichloroethane	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
Trichloroethylene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
p-Dichlorobenzene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
1,1-Dichloroethylene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.
Oxamyl [Vydate]	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2011 12/31/2013	Failed to monitor and/or report required monitoring results due every 3 years. Violation for not sampling from EP001.	Report monitoring results as required.

How can I get involved?

Please feel free to contact the number provided below for more information. Your input is important to us!

For more information please contact:

Ivan Sidney, Business Manager, P.O. Box 260 , Polacca, Arizona 86042

Phone: (928) 737-2670

Fax (928) 737-2347